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Report Documentation Page

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Planning and Assessing Stability Operations: A Proposed VFT Approach

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Reader: Dr. Richard Deckro

22 May 2007



Outline



- Stability Operations
- Value-Focused Thinking
- Scope
- Assumptions
- Using VFT to Create Stability Model
- Results and Analysis
- Conclusion



Stability Operations (SOPS)



- Basic definition: Military and civilian activities conducted across the spectrum from peace to conflict to establish or maintain order in States and regions
- SOPS have existed since 1846 with US occupation of Mexico City
- Generally accepted "successful" implementations of SOPS in history: post-WWII Germany and Japan (RAND 2003)
- Most SOPS since 1980's either failed of have yet to be proven successful (RAND 2003)



Improving SOPS Capability



- 2006 NSS calls for improving capability to plan for and respond to post-conflict and failed-state situations
- DoD Directive 3000.05 calls for new methodology for planning and prioritizing SOPS and evaluating stability in failing/failed states



Value-Focused Thinking



Values: "Principles for evaluating the desirability of any possible alternatives or consequences" (Keeney 1996:537)

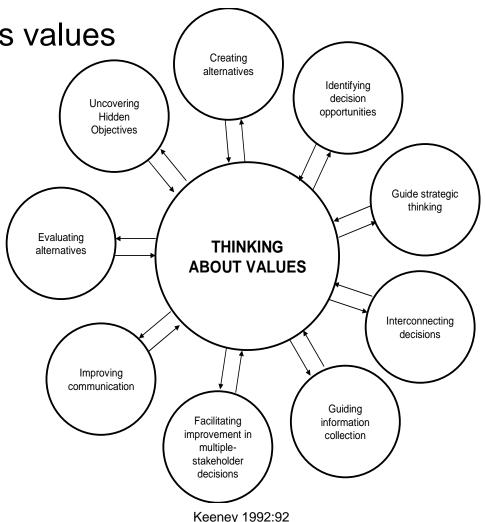
Critically thinking about one's values

when faced with a decision

Identify Values

Structure Values

- Comparison to AFT
 - VFT More Complete
 - VFT More Operational
 - **Both Equally Concise**
 - VFT More Understandable (Leon 1999:213-227)





Why Use VFT?



- Guidance from both high-level documents like Directive 3000.05 and SOJOC, and experts in the field like Covey, Dobbins, Manwaring, and Orr all suggest the importance of making SOPS decisions from a strategic level
 - Decisions faced when conducting SOPS have many multiple competing conflicting objectives
 - SOPS decisions must be made from a strategic viewpoint
- VFT methodology is specifically used for decision problems with these needs



Thesis Scope



- Focus: Assessment of SOPS at strategic level
 - Planning and assessment of tactical operations not considered
- Objective: provide VFT model that supports SOPS through prioritizing and assessment capabilities
 - Flexible to changes in weighting criteria
 - Analytically rigorous to provide accurate information
 - Transparent, traceable, and documented for ease of understanding and use
 - Effective for quick analysis and decision making



Assumptions



- Conditions for SOPS defined by Directive 3000.05 and other national guidance are dependent on political, interagency, and financial support
 - Current struggles for this support in DoD and DoS
 - Assume that this support in place
- Additive value function (AVF) can be used due to robustness to preferential independence
- All data necessary to measure the objectives are available



Creation of a SOPS Value Hierarchy

- Problem Definition
- Determine Values and Objectives
 - Value: What is important to decision maker (DM) about a decision (Keeney 1994)
 - Objective: What one desires to achieve defined by decision context, an object, and a direction of preference (Keeney 1992)
- Develop Attributes and Single Dimensional Value Functions (SDVF)
 - Attribute: Measuring scale for degree of attainment of an objective (Kirkwood 1997)
 - SVDF: Mathematical function defining the scale for each attribute
- Weighting the VH



Problem Definition



- Decision context established through 2002 NSS
 - US is threatened by failing and failed states.
- Problem
 - How does one bring stability to failing state?
 - SOPS are the operations conducted to establish stability



Obtaining Values



- No senior decision maker (DM) available, so use Parnell et al Platinum, Gold, Silver Standards
 - Platinum: interviews with the senior stakeholders and DMs to help formulate the VH
 - Gold: high level policy or strategic planning documents approved by the decision maker to formulate the VH
 - Silver: subject matter experts and representatives of the DMs to formulate the VH





- Directive 3000.05 provides SOPS objectives
- Affinity groupings organize objectives of Directive 3000.05 and derive values for first tier of VH

Table 1: Objectives from Directive 3000.05 Paragraph 4.2

Help establish order	Develop viable market economy
Advance U.S. interests and values	Develop rule of law

Provide security

Restore essential services

Meet humanitarian needs

Develop democratic institutions

Develop robust civil society

Table 2: Objectives from Directive 3000.05

Rebuild indigenous institutions	Construct necessary infrastructure
	•
Rebuild security forces	Develop representative governmental
Rebuild correctional facilities	institutions
Rebuild judicial systems	Ensure security
Secure and stabilize environment	Develop local governance structures
Revive or build private sector	Promote bottom-up economic activity
Encourage citizen-driven, bottom-up	Rebuild infrastructure

economic activity

Rebuild infrastructure

Build indigenous capacity





 Values extracted from objectives asking, "Why is that important" (WITI test).

Table 3: Values from Directive 3000.05 Values

Order Infrastructure
Security Essential Services
Humanitarian needs Democracy
Economy Justice
Rule of Law Private sector
Government Environment
Civil society Economic activity

Peace Governmental Institutions

Indigenous capacity for tasks





 Affinity group values and subobjectives into like terms and by "theme"

Table 4: First Grouping of Directive 3000.05 Values and Objectives

Git	D
Security	Democracy
	Governmental Institutions
Humanitarian Needs	Citizen-Driven
Civil Society	Indigenous
Essential Services	Government
Infrastructure	
Environment	Economic Activity
	Private Sector
Rule of Law	Economy
Justice	
Order	

Table 5: Second Grouping of Directive 3000.05 Values and Objectives

Security	Governance
Humanitarian/Social Well-Being	Economy
Rule of Law and Order	





- Directive 3000.05 lacks detail to determine sub-objective tiers and definitions of fundamental objectives
- Use Silver Standard Documents to confirm top-tier objectives and lower-level tier objectives
 - Beyond Declaring Victory and Coming Home: The Challenges of Peace and Stability Operations by M. Manwaring and J. Joes
 - Winning the Peace: An American Strategy for Post-Conflict Reconstruction by Center for Strategic and International Studies, edited by R. Orr
 - The Quest for Viable Peace: International Intervention and Strategies for Conflict Transformation by J. Covey et al



Definitions of SOPS Objectives

- ANT
- Security: Protecting lives of citizens from immediate and large-scale violence and restoring the state's ability to maintain territorial integrity
- Social Well-Being: Sustenance of life and relieving of suffering by way of humanitarian aid, best practices, essential services, and emergency response systems
- Rule of Law: Comprehensive, six-element justice and reconciliation effort that involves law enforcement, judicial system, constitution and body of law, corrections system, and past abuse reconciliation mechanisms
- **Governance:** Public management process that involves a constituting process, governmental capabilities, participation of citizens, and administrative structures
- Economy: System comprised of policy, macroeconomic fundamentals, free market, and international trade that exchanges wealth, goods, and resources in an environment mostly free of economic criminal activity





Manwaring and Joes Objectives Example





Table 6: Manwaring and Joes' Objectives for Establishment of Order and Rule of Law

Restore public order

Detain enemies of state Try enemies in court

Regulate any aspect of civil life

Achieve status as privileged combatant to

protect intervention force

Allow local political involvement

Establish leaders
Establish elections

Gain international authorization

Table 7: Manwaring and Joes' Objectives for Isolating the Belligerents

Physically isolate insurgents

Separate insurgents from civilian

population

Erect fortified lines

Erect impassable barriers

Clear and hold areas

Saturate areas with troops

Establish policing units

Establish reliable communication

Establish sanctions on insurgent helpers

Create blockhouse barriers and barbed

wire

Use electrified fence

Use minefields

Erect watchtowers

Establish civilian resettlement

Morally isolate insurgents

Maintain legitimate government

Establish military tactics to do least

damage to society and keep casualties low

Secure government base areas Provide security for civilians Create village militias

Create small group of regular army in

charge of defense

Close sanctuaries used by insurgents

Develop military means

Develop diplomatic means

Impede outside aid to insurgents

Construct intelligence service

Provide movement of troops and supplies

Establish storage and sale of food

Establish amnesty

Publicize criminal acts done by insurgent

leaders

Establish resettlement programs for long-

time insurgents taking amnesty

Pay cash or release prisoners for guns

Separate insurgency from leaders

Establish reforms

Divide and conquer based on ethnicity

Formalize rectitude





Table 8: Manwaring and Joes' Objectives for Intelligence

Monitor and surveil enemies of state Professionalize and modernize	Transition to indigenous capability Transition International/foreign military	
indigenous Intel ops	to domestic	
	Transition International/foreign civilian control to domestic	

Table 9: Manwaring and Joes' Objectives for Sustaining Life, Relieving Suffering, and Regenerating Economy

Establish emergency relief (ER)	Understand how unity of effort is jointly
Establish international orgs and	forged between military/civilian orgs
structures for ER	Understand economic implications and
Follow money	responses for victims
Assure money follows mandate	Rehab and develop community
Hold agencies to accountability	Establish self-reliance
Know, use, support ER systems	Provide economic opportunity
Provide water	Transition socialist to market economies
Develop water purification	Create human rights accountability
Provide water delivery	Develop human rights monitoring teams
Provide medical services	Investigate abuses
Provide immunization	Create neighborhood watch
Provide preventative medicine	Develop human rights laws at all levels
Provide needs of women	Teach human rights
Provide needs of children	Disseminate human rights
Provide food	Administer justice
Mobilize food	Provide material
Distribute food	Encourage professional cooperation
Transport food	Establish economic intervention
Apply best practices from successful ER	





 According to Directive 3000.05 stability VH, some subobjectives address fundamental objectives other than those they are listed under and must be reorganized

Table 10: Reorganized Objectives under Rule of Law

- Policing System
 - o Restore public order
- Detention
 - o Detain enemies
- Judicial System
 - o Try enemies in court
 - o Material
 - o Professional cooperation
- Civil Law
 - Regulation of any aspect of civil life

- Wartime Law
 - Protect intervention force
- Human rights laws at all levels
- Governance
 - o Local political involvement
 - o Establish leaders
 - o Elections
 - International authorization

Table 11: Reorganized Objectives under Economy

- Rehab and development
- Self-reliance
- Economic opportunity

- Socialist to market economies
- Economic intervention





Table 12: Reorganized Objectives under Social Well-Being

- •Emergency Relief
- •International orgs and structures for ER
 - oFollow money
 - oAssure money follows mandate
 - oHold agencies to accountability
- Water
 - oPurification
 - oDelivery
- Medical services
 - oImmunization
 - oPreventative medicine
- •Minority needs
 - oNeeds of women
 - oNeeds of children
- Neighborhood watch

- Food
 - oMobilize
 - oDistribute
 - oTransport
- •Successful ER ops
 - oApplying best practices from
 - successful ER ops
 - OUnderstand how unity of effort is
 - Jointly forged between mil/civ
 - orgs
- $\bullet Human\ Rights$
 - oHuman Rights accountability
 - oHuman rights monitoring teams
 - oInvestigate abuses
 - oTeach
 - oDisseminate





Table 13: Reorganized Objectives under Security

•Separate insurgents from civilian	•Disrupt Insurgents		
population	oClose sanctuaries used by		
oClear and hold area	insurgents		
oErect fortified lines	oImpede outside aid to insurgents		
oImpassable barriers	•Intelligence		
•Clearing and holding areas	oConstruct intelligence service		
oSaturating with troops	 Movement of troops and supplies 		
oPolicing units	Non-Violent Action		
oReliable communication	oAmnesty		
oSanctions on insurgent helpers	oPublicize criminal acts done by		
•Fortified lines and Impassible barriers	insurgent leaders		
oBlockhouse barriers and barbed	oResettlement programs for long-		
wire	time insurgents taking amnesty		
oElectrified fence	oPay cash or release prisoners for		
oMinefields	guns		
oWatchtowers	•Separate insurgency from leaders		
•Civilian resettlement	oReforms		
•Military tactics to do least damage to	oEthnic divide and conquer		
society and keep casualties low	•Security for civilians		
oMore troops	oVillage militias		
oSecure government base areas	Small group of regular army in		
•Rectitude	charge of defense		





- Objectives grouped according to underlying values
- Duplicate objectives are removed

Table 14: First Grouping of Rule of Law Objectives

•	Restore	Public	Order
•	Kesiore	rubiic	Oraci

- Policing System
- Detention
- Judicial System
- o Civil Law
- Wartime Law
 - Protect intervention force

- Human rights laws at all levels
- Governance
 - Local political involvement
 - Establish leaders
 - Elections
 - o International authorization

Table 15: Second Grouping of Rule of Law Objectives

•Restore Public Order

oPolicing System
oDetention
oJudicial System
oLocal political involvement
oEstablish leaders
oElections
oElections
oInternational authorization





Table 16: First Grouping of Security Objectives

- Physical Isolation of Insurgents
 - Separate insurgents from civilian population
 - o Clearing and holding areas
 - Fortified lines and Impassible barriers
 - o Separate insurgency from leaders
- Military tactics to do least damage to society and keep casualties low
 - More troops
 - o Secure government base areas
 - o Security for civilians
 - o Construct intelligence service
 - Safe movement of troops and supplies

- Non-Violent Action
 - o Amnesty
 - Publicize criminal acts done by insurgent leaders
 - Resettlement programs for long-time insurgents taking amnesty
 - Pay cash or release prisoners for guns
- Disrupt Insurgents
 - o Close sanctuaries used by insurgents
 - Impede outside aid to insurgents

Table 17: Second Grouping of Security Objectives

- Security vs. Insurgents

 Physical Isolation of Insurgents
 Disrupt Insurgents

 Non-Violent Action
- •Military tactics to do least damage to society and keep casualties low oMore troops oSecure government base areas oSecurity for civilians oConstruct intelligence service oSafe movement of troops and supplies





Table 18: First Grouping of Social Well-Being Values and Objectives

•	• Funding		•	Best	Practices
	0	International orgs and		0	Successful ER ops
		structures for ER	•	Huma	an Rights
•	• Systems			0	Human Rights accountability
	0	Water		0	Human rights monitoring
	0	Medical services			teams
	0	Minority needs		0	Investigate abuses
	0	Food		0	Teach
	0	Transportation		0	Disseminate

Table 19: First Grouping for Economy Values and Objectives

•Rehab and development	•Socialist to market economies
•Self-reliance	 Economic intervention
•Economic opportunity	



Orr

- Security, Governance, Social and Economic Well-Being, and Justice and Reconciliation
- Humanitarian Aid, Social Well-Being, and Economy combined into one fundamental objective
- Objectives align with Directive 3000.05 fundamental objectives

Covey et al

- Politics (Governance), Defeating Military Extremists (Security),
 Rule of Law, Economy
- Sub-objectives overlap
 - Prisons in Rule of Law
 - Detention Facilities in Security
- Economy sub-objectives list several Humanitarian Aid and Social Well-Being objectives



DoS Matrix



- DoS Post-Conflict Reconstructions Essentials Tasks Matrix (DPCRETM) currently used to plan and prioritize SOPS
 - Living document, continually increases in size
 - Five broad headings
 - Security
 - Governance and Participation
 - Economic Stabilization and Infrastructure
 - Humanitarian Assistance and Social Well-Being
 - Justice and Reconciliation
 - 1000+ objectives mostly means objectives
 - Same tasks appear under multiple headings
 - Hierarchy constructed from headings and sub-headings



Coalition Provisional Authority

- CPA documentation specific to Iraqi stabilization
- Four fundamental objectives
 - Governance
 - Economy
 - Security
 - Essential Services (Social Well-Being)
- Rule of Law sub-objectives scattered within Governance, Security, and Essential Services
- Many means objectives in the documentation

Enhanced Directive 3000.05 Stability Value Hierarchy

- Good Value Hierarchies
 - Complete
 - Non-Redundant
 - Decomposable
 - Operable
 - Small Size
- Combined VH
 - Deconstructs all previous objectives into single VH
 - 41 Attributes
 - Includes the five fundamental objectives from Dir 3000.05



All Silver Standard Objectives Deconstructed



Process

- 1. Fundamental objective of stability is chosen to develop sub-objectives
- Second affinity groupings from each Silver Standard for particular branch are listed
- 3. Objectives deconstructed via WITI test
- Objectives reconstructed and become lower tiers of Directive 3000.05 stability VH until an appropriate measure can be obtained
- 5. New fundamental objective for stability is chosen
- Repeat until all branches of hierarchy have been developed



Example of Deconstruction of Security Branch



Table 19: Orr Security Objectives and Sub-objectives

- Public safety
 - oFreedom from violence and
 - coercion
 - oOperation of schools
 - oConducting business
- •Cease-fires

- •Military Strength
 - oRebuilding of military
 - oSecurity Forces Capability
 - oUnity of effort
- •Dealing with Enemies
 - \circ DDR
 - oCriminal Enterprise

Table 20: Manwaring Security Objectives and Sub-objectives

- •Security vs. Insurgents
 - oPhysical Isolation of Insurgents
 - oDisruption of Insurgents
- •Non-Violent Action
 - oAmnesty
 - oPublication of criminal acts done
 - by insurgent leaders
 - oResettlement programs for long-
 - time insurgents taking amnesty
 - oPayment of cash or release
 - prisoners for guns

- •Military tactics to do least damage to society and keep casualties low
 - oMore troops
 - oSecurity for government base
 - areas
 - oSecurity for civilians
 - oConstruction of intelligence
 - service
 - oSafe movement of troops and
 - supplies

Table 21: Covey Security Objectives and Sub-objectives

- •Public Safety
 - oDemining
 - oProtection of Movement
 - oRefugee/IDP security
- •Minimizing Extremist Threat
 - oMinimization of Fighting
 - $\circ Demobilization \\$
 - oDisarmament

- •Territory Security
 - oViolence across boundaries of
 - state
 - oBorder Monitoring
- Military Presence
 - oMaximizing multinational
 - strength
 - oJoint mil-police command and
 - control
 - oAllied Security and Participation

Continued Deconstruction of Security Branch

- •Public Safety (following sub-objectives incorporated into Public Safety sub-objective)
 - oDemining
 - oProtection of Movement
 - oRefugee/IDP Security
 - oFreedom from Violence and Coercion
 - Operate Schools
 - oConduct Business
- •Maximizing multinational strength
- •Joint mil-police command and control
- •Allied Security and Participation
- •Military tactics to do least damage to society and keep casualties low
 - oMore troops
 - oSecure government base areas
 - oSecurity for civilians (remove—divided into Freedoms from Violence and of Movement)
 - oConstruct intelligence service
 - oSafe movement of troops and supplies
- •Military Strength (rename—Military)
 - oRebuild military (change—decompose into Personnel and Infrastructure)
 - oSecurity Forces Capability (remove—many of these objectives are accounted for in Law Enforcement Capability and DDR)
 - oUnity of effort
- •Minimize Fighting (remove—product of DDR)
- •Demobilization (combine—Demobilization and Disarmament are two physical ways to reduce extremist threat; combination of both avoids preferential dependence issues)
- •Disarmament (combine—Demobilization and Disarmament are two physical ways to reduce extremist threat; combination of both avoids preferential dependence issues)
- Reintegration
- •Physical Isolation of Insurgents (combine—Defeat Extremist/Militant Threat)
- •Disrupt Insurgents (combine—Defeat Extremist/Militant Threat)
- •Non-Violent Action (incorporated into Defeat Extremist/Militant Threats)
 - oAmnesty
 - oPublicize criminal acts done by insurgent leaders
 - oResettlement programs for long-time insurgents taking amnesty
 - oPay cash or release prisoners for guns
- •Cease Fires (removed due to being an alternative)
- •DDR (removed due to duplication)
- •Criminal Enterprise (removed due to counting in Economy)
- •Territory Security
 - oViolence across boundaries of state
 - oBorder Monitoring



Security Objectives Organized



Table 22: Security Objectives and Sub-objectives for Directive 3000.05 Security Branch

```
    Defeat Extremist/Militant Threat

            Demobilization and Disarmament
            Reintegration
            Territory Security

    Military

            Military Forces
            Military Infrastructure
            Unity of Effort

    Public Safety
```

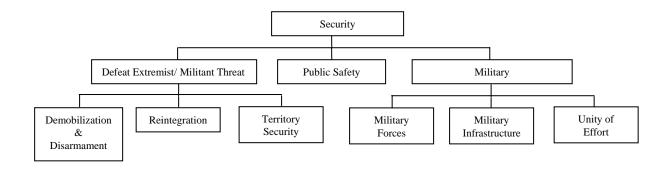


Figure 1: Security Sub-objectives of the Combined Nation-State Stability Value Hierarchy



Combined Stability VH



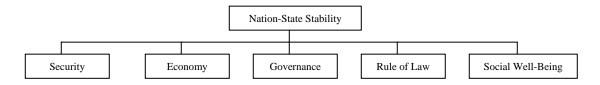


Figure 2: The Top Tier Values of the Combined Nation-State Stability Value Hierarchy

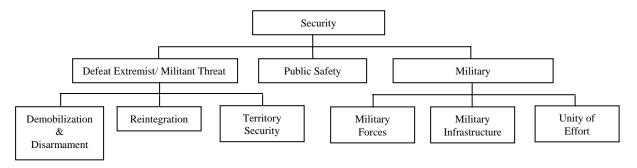


Figure 3: Security Sub-objectives of the Combined Nation-State Stability Value Hierarchy

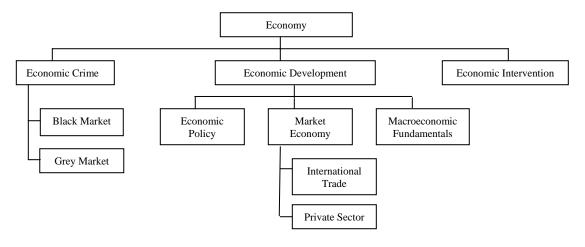


Figure 4: Economy Sub-objectives of the Combined Nation-State Stability Value Hierarchy



Combined Stability VH



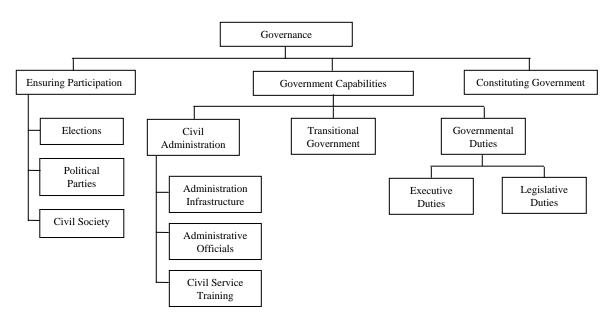


Figure 5: Governance Sub-objectives of the Combined Nation-State Stability Value Hierarchy

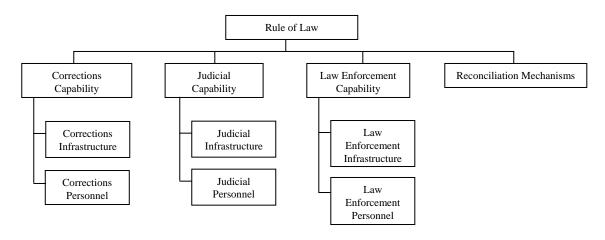


Figure 6: The Rule of Law Sub-objectives of the Combined Nation-State Stability Value Hierarchy



Combined Stability VH



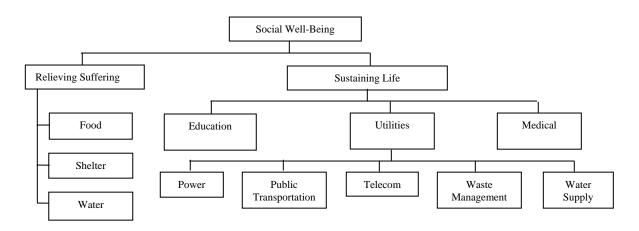


Figure 7: Social Well-Being Sub-objectives of the Combined Nation-State Stability Value Hierarchy



Attributes and SDVFs



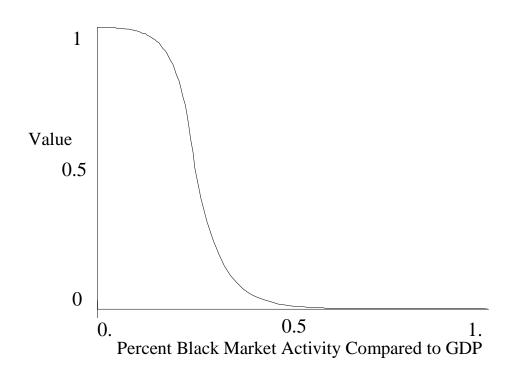
- Making strategic decisions necessitates high level evaluations
- Dividing sub-objectives until a natural-direct measure is found is undesirable
 - Unacceptably large hierarchy
 - Difficult to analyze
 - Difficult to understand
- Constructed scale offers advantages
 - Small and functional hierarchy
 - Quick analysis



Notional Attribute and SDVF Examples



- Black market activities are defined as "illicit trade in goods or commodities in violation of official regulations" (Merriam-Webster 2006).
 - Money laundering
 - Trafficking of weapons, drugs, and humans
- Notional Black Market Attribute: Estimated % Money loss from black market activity in comparison to GDP

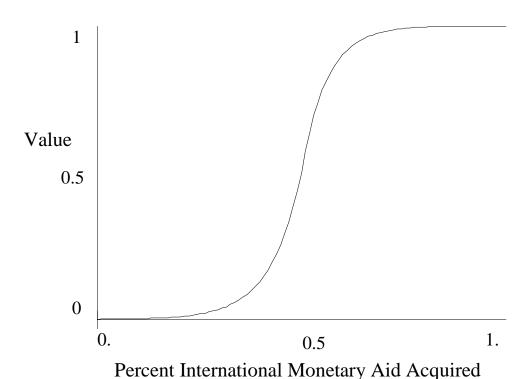




Notional Attribute and SDVF Examples



- Economic Intervention is the international community offering economic aid in the beginning stages of SOPS to revive the economy of a failed nation
- Notional Economic Intervention Attribute: % Difference of money obtained vs. the money needed as defined by appropriate SME

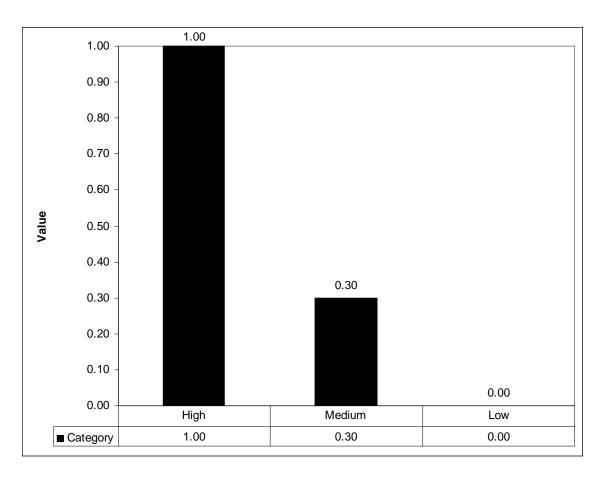




Notional Attribute and SDVF Examples



- Constituting Government is the process in which a national government is established either through national dialogues or constitutional conventions
- Notional Attribute: Establishment of the constitution





Attributes and SDVFs



- Attributes and SDVFs needed for Directive 3000.05 stability VH
 - High level decision maker can use SME input from all areas of SOPS for assessment
 - SMEs use their respective knowledge and experience to score the sub-objectives and are not limited to one specific quantifiable measure to evaluate an area
- Combination of all the attributes to evaluate the attainment of a stable state is achieved through the additive value function (AVF)

$$v(x_1,...,x_N) = \sum_{i=1}^{N} k_i v_i(x_i)$$
 and $\sum_{i=1}^{N} k_i = 1$

where $\,v_i\,$ is the value function over $\,X_i\,$ and $\,k_i\,$ is global weights of attribute $\,X_i\,$



Weighting the Value Hierarchy



- Weights typically elicited from Decision Maker
- Used Gold and Silver Standards for Weighting
 - Documents provide little insight to relative importance to any values to each other
 - Swing weighting from bottom up preferred, but use notional weighting top down due to lack of detail in Gold and Silver Standard materials
 - Security assumed 1.5 times importance than other fundamental objectives, and other fundamental objectives equally important to each other



Notional Calculation of Weights



Weights of objectives denoted "w" with subscript letters

$$w_{E} = w_{G} = w_{RL} = w_{SWB} = x$$

$$w_{S} = 1.5x$$

$$w_{S} + w_{E} + w_{G} + w_{RL} + w_{SWB} = 1 \rightarrow$$

$$1.5x + x + x + x + x = 1 \rightarrow$$

$$5.5x = 1 \rightarrow$$

$$x = 1/5.5 = 0.\overline{18} \rightarrow$$

$$w_{S} = 0.\overline{27} \qquad w_{E} = 0.\overline{18} \qquad w_{G} = 0.\overline{18}$$

$$w_{RL} = 0.\overline{18} \qquad w_{SWB} = 0.\overline{18}$$



Illustration of SOPS Model



- Evaluation of SOPS using fictional state of Badistan
 - Notional Attribute Scores based on Courses of Action (COA's)
 - Evaluation between 2003 and 2005



Attribute Scoring



Ranking for Proposed Stable State Value







Attribute Scoring Revisited



Ranking for Proposed Stable State Value

Alternative	Value	
2005	0.362	
2003	0.238	

- Level of Public Safety
- Level of Reconciliation Capability
- Level of Food
- Level of Education
- Level of Reintegration of Insurgents

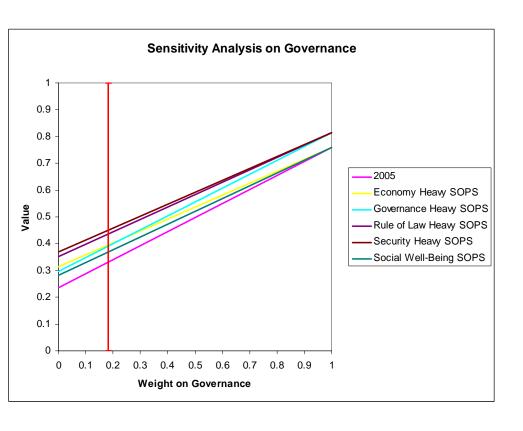
- Proportional Level of Economic Aid
- Level of Military Infrastructure
- Level of Shelter
- Level of Medical Care
- Level of Territory Security

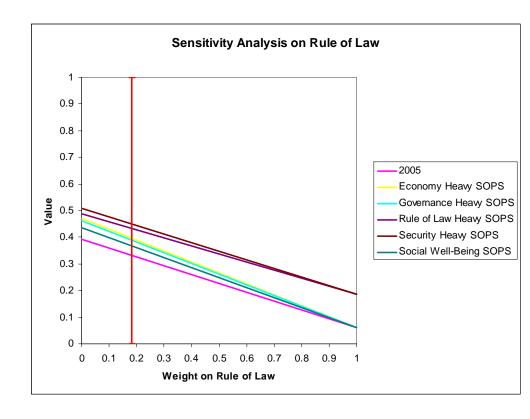
- Establishment of Constitution
- Level of Military Forces
- Level of Water
- Level of D&D of Insurgents
- Other



SOPS COAs Scoring and Sensitivity

Alternative	2005	EH	GH	RLH	SH	SWB
Score	0.362	0.438	0.420	0.462	0.478	0.398

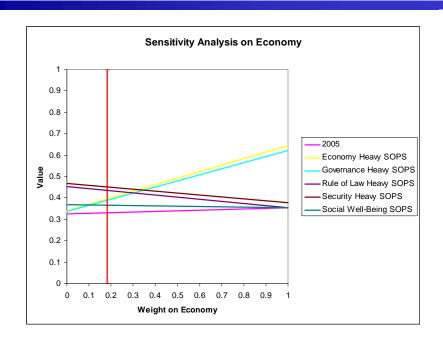


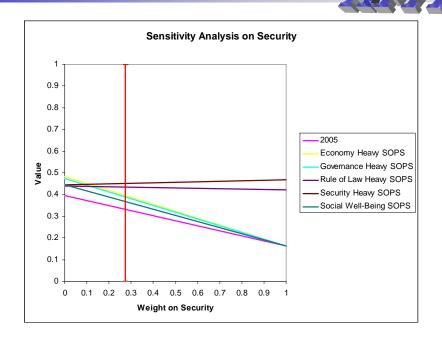


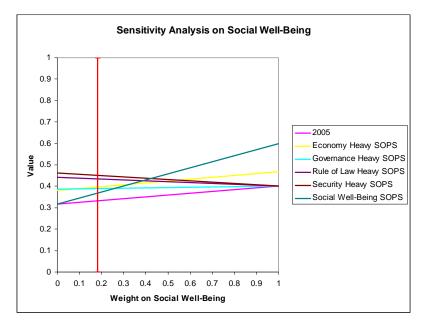


SOPS COAs Scoring and Sensitivity











Conclusion



- VFT methodology developed a value hierarchy based on Directive 3000.05 and other Silver and Gold Standards to measure stability in failing states
- Directive 3000.05 stability VH uses
 - Scoring and assessing stability through illustration of Badistan over time
 - Efficiently and effectively prioritize SOPS COAs based on the current evaluation of a failed state was illustrated
- Research has promising contributions to the SOPS community by illustrating how VFT can be used



Further Research



- Weighting of model should be revisited with input from actual DM using swing weighting technique
- Establish accepted attributes for the Directive 3000.05 stability VH
 - VH suggests DMs values in measuring stability
 - Refine attributes with approval from DM or SME
 - May have missing data issues
 - Use appropriate missing data techniques
 - Re-evaluate and develop new attributes
 - Issue intelligence requirement
- Improve prediction of COA outcomes
 - Prediction inaccuracies affect ranking
 - Use simulation to predict COA outcomes and SOPS hierarchy to rank COAs



Summary



- Stability Operations
- Value-Focused Thinking
- Scope
- Assumptions
- Using VFT to Create Directive 3000.05-based stability Value Hierarchy
- Notional Results and Analysis
 - Scoring Stability of Nation-State Over Time
 - Prioritizing SOPS COAs
- Conclusion



Questions







Backup Slides





Literature Review



- SOPS History and Lessons Learned
 - Dobbins et al, America's Role in Nation-Building: From Germany to Iraq
 - Defense Science Board (DSB), "Transition to and from Hostilities"
 - DSB, "Transition to and from Hostilities: Supporting Papers"
 - DSB, "Instituting Stability Operations within DoD"
- SOPS Objectives
 - Department of Defense (DoD) Directive 3000.05
 - DoD Stability Operations Joint Operating Concept
 - Covey et al, The Quest for Viable Peace: International Intervention and Strategies for Conflict Transformation
 - Manwaring and Joes, Beyond Declaring Victory and Coming Home: The Challenges of Peace and Stability Operations
 - Orr, Winning the Peace: An American Strategy for Post-Conflict Reconstruction
 - Department of State (DoS), Post Conflict Reconstruction Essential Tasks Matrix
 - Coalition Provisional Authority
- VFT
 - Clemen, Making Hard Decisions: An Introduction to Decision Analysis
 - Keeney, Value-Focused Thinking: A Path to Creative Decision Making
 - Keeney and Raiffa, Decisions with Multiple Objectives: Preferences and Value Tradeoffs
 - Kirkwood, Making Hard Decisions: An Introduction to Decision Analysis



SOPS Investigated



- WWI Germany
- WWII Germany
- WWII Japan
- Panama
- Somalia
- Haiti
- Bosnia
- Kosovao
- Afghanistan

Germany (WWI) Lessons Learned

- Thinking must be done about changing political and cultural frameworks
- Idealist peace documents don't address necessary changes for stability
- Allied troops need presence on enemy soil
- Enemy must unconditionally surrender to allow for SOPS to be successful
- Reparations should be addressed after rebuilding the economy
- Peace treaty should not humiliate the defeated

Germany (WWII) Lessons Learned

- Democracy can be transferred, and societies can be encouraged to change
- Defeated populations can sometimes be more cooperative than anticipated
- Enforced accountability for past injustices can facilitate transformation
- Dismembered and divided countries can be difficult to put back together
- Defeated countries often need large transfers to cover basic government expenditures and quickly provide humanitarian assistance post-conflict
- Reparations immediately following the conflict are counterproductive.
 The economy must grow before a country can compensate the victims of the conflict
- Permitting more than one power to determine economic policy can delay economic recovery



Japan Lessons Learned



- Democracy can be transferred to non-Western societies
- How responsibility for the war is assigned can affect internal political dynamics and external relations in the future
- Co-opting existing institutions can facilitate nation-building better than building new ones from scratch
- Unilateral nation-building can be easier than multilateral efforts
- Concentrating the power to make economic policy decisions in the hands of a single authority can facilitate economic recovery
- Delegating implementation of economic policy decisions to local governing elites, with their own priorities, can significantly minimize the effectiveness of change
- Idealistic reforms designed for the long-term improvement of the recipient nation must sometimes yield to the immediate global concerns of the occupying power



Panama Lessons Learned



- Leaders must clarify mission and objectives for SOPS
- SOPS planning process needs to combine plans and policies with operations
- SOPS planning process needs to be linked with combat operations planning
- Planners need political, social, and institutional understanding of the region of SOPS
- Planners can not have responsibility for SOPS execution
- SOPS needs interagency coordination



Somalia Lessons Learned



- Nation building objectives should be scaled to available forces, resources, and staying power
- Military forces need to be complemented by civil capabilities for law enforcement, economic reconstruction, and political development
- Unity of command can be as important in peace operations as in war
- There can be no economic or political development without security



Haiti Lessons Learned



- Short departure deadlines and exit strategies diminish prospects for enduring transformation
- International police armed with weapons and the power to arrest can usefully supplement military peacekeepers
- Broad justice-sector reform is necessary to bolster policing efforts
- Where government is grossly ineffective, it needs to be reformed before reconstruction programs can be successful
- Privatization can be a prerequisite for economic growth, especially where government officials us state-owned enterprises for their own private purposes



Bosnia Lessons Learned



- Unity of command can be as important for the civil aspects of peace operations as for the military
- Elections are an important benchmark in progress toward democracy.
 Held too early, they can strengthen rejectionist forces rather than promote further transformation
- Organized crime can emerge as the greatest obstacle to transformation
- It is difficult to put a nation back together if its neighbors are pulling it apart
- Successful reconstruction in poor and divided countries requires substantial long-term commitment from donors
- Foreign donors need to take an active role in economic policy in countries with stalemated or ineffective governments



Kosovo Lessons Learned



- Broad participation, extensive burden-sharing, unity of command, and effective U.S. leadership can be compatible
- A slow mobilization of civil elements in SOPS can be costly
- Uncertainty over final international status can hinder democratic transition
- When countries lack effective governmental institutions, placing expatriate staff in positions of authority can facilitate economic policymaking and implementation
- Large-scale assistance can rapidly restore economic growth in conjunction with effective economic institutions



Afghanistan Lessons Learned



- Low input of military and civilian resources yields low output in terms of security, democratic transformation, and economic development
- Support of neighboring nations can have an important influence on the consolidation of weak and divided states
- In the absence of pervasive security, the prospects of widespread economic recovery or political development are very limited



DSB Findings on SOPS



 At this time the Secretary [of Defense] is not adequately informed regarding our readiness for success in stability operations... He is not fully informed whether we are better or worse prepared to succeed at any of the essential elements of stability operations within a region... Without that knowledge, that management information, he can lead but he cannot fully manage. He cannot with full confidence advise the President and the Congress regarding our potency for stability operations that may be required by various courses of action under consideration. (Defense Science Board 2005b:27)





- **I. Economy**—System made up of policy, macroeconomic fundamentals, free market, and international trade that exchanges wealth, goods, and resources mostly free of economic criminal activity.
 - A. Economic Crime—Black and Grey Market Activities
 - **1. Black Market**—Black market activities are defined as "illicit trade in goods or commodities in violation of official regulations". Examples of black market activities are: money laundering, trafficking of weapons, drugs, and women.
 - **2. Grey Market**—Grey market activities are defined as illegally obtaining commodities that are generally considered legitimate. Examples of grey market activities are: avoidance of taxes, violation of regulations, smuggling, evasion of economic embargoes, currency manipulation, and exploitation of raw material resources.
 - **B. Economic Development**—Development of economy based on the three objectives: Economic Policy, Macroeconomic Fundamentals, and Market Economy.
 - **1. Economic Policy**—Economic policy refers to the actions that governments take in the economic field. It covers the systems for setting interest rates and government deficit as well as the labor market, national ownership, and many other areas of government.

Fiscal policy—the size of the government deficit and the methods it uses to finance it.

Fiscal stance: The size of the deficit

Tax policy: The taxes used to collect government income.

Government spending on just about any area of government

Monetary policy is concerned with the amount of money in circulation and, consequently, interest rates and inflation.

Interest rates, if set by the Government

Incomes policies which aim at imposing non-monetary controls on inflation

Bank regulations which affect the money multiplier

Trade policy refers to tariffs, trade agreements and the international institutions that govern them.





- **2. Macroeconomic Fundamentals**—Necessary components needed for economy to work: Currency, Central Banking System, Regulatory Framework, Financial Transaction Reporting, and Business Registration System.
- **3. Market Economy**—Economic system in which the production and distribution of goods and services takes place through the mechanism of free markets guided by a free price system rather than by the state in a planned economy.
 - **a. International Trade**—Exchange of goods and services across international boundaries or territories.
 - **b. Private Sector Economy**—The part of the economy consisting companies not government-owned. Examples are private firms and companies, corporations, banks, charities, non-governmental organizations and individual companies.
- **C. Economic Intervention**—International community offering economic aid to offset debt and re-fund various stabilization activities in the beginning stages of SOPS.
- **II. Governance**—Governance is a public management process that involves a constituting process, governmental capabilities, and participation of citizens.
 - **A. Constituting Government**—Process in which a national government is established either through National Dialogues or Constitutional Conventions.
 - **B. Government Capabilities**—Government entity itself and the duties it entails.
 - **1. Administration**—Sub-objective of Government Capability that deals with structures, officials and training of the administration of the government.
 - **a. Administrative Infrastructure**—Facilities and structures that are needed in order for the administration to be able to govern the populace.
 - **b. Administrative Officials**—Appointed positions in the executive and legislative branches of the government at all levels except for positions in the uniformed services.
 - **c. Civil Service Training**—Training enabling members of Government Administration at all levels to be able to succeed at governance.
 - **2. Government Duties**—Duties performed by the executive and legislative branches of government.
 - **a. Executive Duties**—All duties incumbent to the executive branch of government: conduct foreign relations (mediation and negotiation), command armed forces, appoint state officials, administer the government departments and services, and issue executive orders.





- **b. Legislative Duties**—All duties incumbent to the legislative branch of government: create the body of law consisting of civil, economic, human rights, and wartime laws.
- **3. Transitional Government**—Transitional Government made up of international government aid workers and infrastructure.
- C. Participation in Government—Ability for populace to take part in and influence government
 - **1. Civil Society**—Ability of a population to partake in advocacy groups, civic associations, and free media
 - **2. Democratic Elections**—The fair process of a population to choose office holders.
 - 3. Political Parties—Organized groups seeking political power by democratic elections
- III. Rule of Law—Comprehensive, four-element justice and reconciliation effort that upholds the law involving: Corrections Capability, Judicial Capability, Law Enforcement Capability, and Reconciliation Capability.
 - **A. Corrections Capability**—Ability to punish, rehabilitate, or detain criminals convicted of breaking the law
 - **1. Corrections Infrastructure**—The basic facilities, services, and installations of the Corrections System: prisons, half-way houses, and other penal installations.
 - **2. Corrections Personnel**—Trained and equipped personnel needed to operate the Corrections System, such as prison staff.
 - **B. Judicial Capability**—Ability to try and administer legal processes for criminals suspect of breaking the law
 - **1. Judicial Infrastructure**—The basic facilities, services, and installations of the Judicial System such as courthouse and other legal establishments.
 - **2. Judicial Personnel**—Trained and equipped personnel needed to operate the Judicial System including: Local Judges and Prosecutors, International Judges and Prosecutors, Defense Attorneys, Court administrators, and legal professionals.
 - **C. Law Enforcement Capability**—Ability to maintain law and order and protect the public from physical crime by performing police duties including: Criminal Intel, Criminal Investigation, High Risk Arrests, Crowd Control, Close Protection of Authorities, Combating Criminal Violence, Dismantling Organized Crime, Patrolling, Protection, and Other Police Duties.





- **1. Law Enforcement Infrastructure**—The basic facilities, services, and installations of the Law Enforcement System such as police HQ, police academy, and fixed posts.
- **2. Law Enforcement Personnel**—Trained and equipped personnel needed to operate the Law Enforcement System such as police, detectives, and police administration.
- **D. Reconciliation Capability**—Ability to reconcile past abuses and grievances of the populace against unfair rule.
- **IV. Security**—Protecting lives of populace from immediate and large-scale violence and restoring the state's ability to maintain territorial integrity.
 - **A. Defeat Extremist/Militant Threat**—Causing militant (extremist, insurgent, or warfighter) threat to be incapable of continuing warfare, and securing populace, region, and state from militant warfare.
 - **1. Demobilizing/Disarmament**—Minimizing insurgents' capability to wage warfare via methods such as: Destroying Insurgent C2, Clearing and Holding Areas, Closing Insurgent Sanctuaries, and Limiting circulation and individual possession of weapons and small arms
 - **2. Reintegration**—Relocate soldiers to communities, provide employment, educational opportunities, and community reintegration programs
 - **3. Territory Security**—Deter violence across local and regional boundaries through efforts such as: border security, fortified lines, and impassable barriers.
 - **B.** Military—Permanent professional forces of soldiers, sailors, airmen trained in warfare
 - 1. Indigenous Mil Forces—Personnel needed to constitute standing national military.
 - **2. Indigenous Mil Infrastructure**—The basic facilities, services, and installations of the Military such as training facilities, intelligence services, and bases of operation.
 - **3. Unity of Effort**—All aid in military reconstruction united under Allied Security and Participation (maximizing multinational strength) and Joint mil-police command and control.
 - **C. Public Safety**—Freedom of the populace to move about daily activities (ex: school, business, movement of troops/supplies, etc) without fear and harm from violence (ex: mines, violent crime, harassment, etc.)





- V. Social Well Being—Sustenance of life and relieving of suffering by way of humanitarian aid, best practices, human rights, essential services, and emergency response systems.
 - **A. Relieving Suffering**—Reducing death, pain, distress, loss, or damage to human life with humanitarian aid.
 - **1. Food**—Food provided for immediate emergency consumption
 - 2. Shelter—Structures provided for immediate emergency habitation
 - 3. Water—Potable Water source for immediate emergency consumption
 - **B. Sustenance of Life**—The support of life of the indigenous persons after emergency.
 - **1. Education**—The opportunity for school-aged students to be instructed created by educators, schools, and school supplies.
 - **2. Medical**—Prevention, treatment, and management of illness, injury, and the preservation of mental and physical well-being through the services provided by medical staff, hospitals and clinics, and medical supplies.
 - **3. Utilities**—Infrastructure needed to support life of indigenous persons: Power, Sewage, Telecom, Trash, and Water
 - **a. Power**—Generation, transmission, and distribution of electricity to the region.
 - **b. Public Transportation**—The different methods of public and mass international and intranational transportation via methods like rail, bus, airline, ferries, and taxi.
 - **c. Telecom**—Communication over distance via electronic systems including TV, radio, telephone, and computers.
 - **d. Waste Management**—Collection, transport, processing, recycling or disposal of natural human or constructed waste materials.
 - e. Water Supply—System providing water for general use and consumption to region.



Means vs. Fundamental Objectives

- Fundamental Objective—characterizes essential reason for interest in the decision situation (Keeney 1992)
 - Essential to guide all effort in decision situations and in the evaluation of alternatives
- Means Objective—is of interest in the decision context because of its implications for the degree to which another (more fundamental) objective can be achieved (Keeney 1992)
 - Important because they are means to the achievement of fundamental objectives
 - Can be very useful for developing models to analyze decision problems and create alternatives



Decomposability and Preferential Independence



- Attributes are decomposable if the value attached to variations in the score of the attribute do not depend on the level of other lower-tier attributes.
 - Hard to determine preferability of alternatives without decomposability
 - Procedures can be too complicated for practical use of scoring



DoD Directive 3000.05 Stability VH



